

Receiving Report

Date: 15-01-20

Batch No: 132067

Supplier: KLX

Dart P/O: 28135

Packing Slip: Yes / No
 Invoice: Yes / No
 Receipt: Cash Cr /
 New Supplier Yes No /

Release Note Attached: Yes / No N/A
 Waybill Attached: Yes / No
 Shipment Complete: Yes / No N/A
 QC18 Inspection N/A /
 Work Order N/A

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR Number

Initials of Receiver

QC12

SP

Production/Admin:

Date

Received/Costing

Initial

Location



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO28135**

Purchase Order Date 4/15/2015

PO Print Date 4/15/2015

Page Number 1 of 2

Order From :

VU-KLX01

Ship To : DART AEROSPACE LTD

KLX INC.
88289 EXPEDITE WAY
CHICAGO, IL 33172
USA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 305-925-2600

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Ship To Contact

Terms

Net 30

Ship To Phone

Currency

USD

Ship Via:

FOB

Destination-Collect

Ship Acct:

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	MS21069L3	ANCHOR NUT	4/17/2015 Yes 4/17/2015	FN	50.00 Each	\$0.40	\$20.00
Line Total:							\$20.00
2	MS21083C8	Nut	4/17/2015 Yes 4/17/2015	FN	20.00 Each	\$1.60	\$32.00
Line Total:							\$32.00
3	MS21075L5	Nut Plate	4/17/2015 Yes 4/17/2015		50.00 Each	\$1.80	\$90.00

Note:

4/15/2015

Sp 501-20



Tel: +1.305.925.2600 • Fax: +1.305.507.7191 • www.KLXAerospace.com
Remit to Address: 88289 Expedite Way, Chicago, IL 60695-0001
Wire Instructions: KLX Inc. • JPMorgan Chase Bank New York
ABA: 021000021 • Account: 304639273 • SWIFT: CHASUS33 • CHIP UID: 0002

INVOICE NUMBER

HZ9K0K

PAGE 1 OF 3

SOLD TO:

002409
DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY, ON
CANADA K6A 1K7

SHIP TO:

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY, ON
CANADA K6A 1K7



ORDER NO.		DATE	SHIP VIA	TERMS		SHIPPING TERMS	
PO28135		04/15/15	FEDX INTL P1 COLL	NET 45		FOB-MIAMI	
ITEM NO.	QUANTITY ORDERED	PART NUMBER AND DESCRIPTION	PRICE	UNIT	BACK ORDER	SHIPPED	AMOUNT
1	50	MS21069L3 LOCKNUT, PLATE - TWO LUG ECCN :9A991 Country Origin: ITALY TARIFF: 7318.16.0085 MFR: PAOLO ASTORI CTRL# : 2015D04911 LOT# : 56887 LOT QTY: 50 COUNTRY OF ORIGIN: IT Country of Origin: ITALY	0.400	EA	0	50	20.00
2	20	MS21083C8 LOCKNUT ECCN :9A991 Country Origin: USA TARIFF: 7318.16.0085 MFR: MACLEAN-ESNA CTRL# : 2008H05736 LOT# : 39223-000 LOT QTY: 20 COUNTRY OF ORIGIN: USA Country of Origin: USA	1.600	EA	0	20	32.00
3	50	MS21075L5 LOCKNUT, PLATE - TWO LUG ECCN :9A991 Country Origin: USA TARIFF: 7318.16.0085 MFR: ALCOA KAYNAR FULLERTON CTRL# : 2010J06026 LOT# : 5346033-000 LOT QTY: 50	1.800	EA	0	50	90.00
CONTINUED							

Sold on 20

MATERIAL TO BE RETURNED MUST HAVE PRIOR AUTHORIZATION BY KLX INC.

MATERIAL TO BE RETURNED MUST HAVE PRIOR AUTHORIZATION BY KLX INC.

ALL ITEMS ARE SUBJECT TO A 100% RESTOCKING CHARGE.

SHIPPED FROM: 10000 NW 15 TERRACE, MIAMI, FL 33172

ORIGINAL INVOICE

BY RECEIVING DELIVERY OF THE ITEMS COVERED BY THIS INVOICE, BUYER AGREES TO THE TERMS AND CONDITIONS OF SALE AT:
<http://www.KLXAerospace.com/conditions-sale/>



Tel: +1.305.925.2600 • Fax: +1.305.507.7191 • www.KLXaerospace.com
Remit to Address: 88289 Expedite Way, Chicago, IL 60695-0001
Wire Instructions: KLX Inc. • JPMorgan Chase Bank New York
ABA: 021000021 • Account: 304639273 • SWIFT: CHASUS33 • CHIP UID: 0002

INVOICE NUMBER

HZ9K0K

PAGE 2 OF 3

SOLD TO:
002409

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY, ON
CANADA K6A 1K7

SHIP TO:

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY, ON
CANADA K6A 1K7



ORDER NO. PO28135		DATE 04/15/15	SHIP VIA FEDX INTL P1 COLL		TERMS NET 45		SHIPPING TERMS FOB-MIAMI		
ITEM NO.	QUANTITY ORDERED	PART NUMBER AND DESCRIPTION			PRICE	UNIT	BACK ORDER	SHIPPED	AMOUNT
4	50	COUNTRY OF ORIGIN: USA Country of Origin: USA MS21069-04 LOCKNUT, PLATE - TWO LUG ECCN :9A991 Country Origin: USA TARIFF: 7318.16.0085 MFR: ALCOA FASTENING/REPUBLIC CTRL# : 2008K03097 LOT# : TC193 LOT QTY: 50 COUNTRY OF ORIGIN: USA Country of Origin: USA These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to U.S. law is prohibited. *** SHIPPED 1 CTN *** # 1=CTN 2# 0 OZ. 633989182916 FREIGHT ACCT# 15179324-0			0.950	EA	0	50	47.50
MATERIAL TO BE RETURNED MUST HAVE PRIOR AUTHORIZATION BY KLX INC.									

ALL ITEMS ARE SUBJECT TO A 100% RESTOCKING CHARGE.

SHIPPED FROM: 10000 NW 15 TERRACE, MIAMI, FL 33172

ORIGINAL INVOICE

BY RECEIVING DELIVERY OF THE ITEMS COVERED BY THIS INVOICE, BUYER AGREES TO THE TERMS AND CONDITIONS OF SALE AT:
<http://www.KLXaerospace.com/conditions-sale/>



HZ9K0K

PAGE 3 OF 3

SOLD TO: 002409

SHIP TO:

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY, ON
CANADA K6A 1K7

MATERIAL TO BE RETURNED MUST HAVE PRIOR AUTHORIZATION BY KLX INC.

ALL ITEMS ARE SUBJECT TO A 100% RESTOCKING CHARGE.

SHIPPED FROM: 10000 NW 15 TERRACE, MIAMI, FL 33172



BY RECEIVING DELIVERY OF THE ITEMS COVERED BY THIS INVOICE, BUYER AGREES TO THE TERMS AND CONDITIONS OF SALE AT:
<http://www.KLXaerospace.com/conditions-sale/>



P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.KLXAerospace.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172


Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to KLX Aerospace Solutions.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO28135

LIN#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
1	50	EA	MS21069L3		56887	PAOLO ASTORI	A3856		


04/15/15
Jason Lewis
Senior Director, Global Quality

Inv # 04/15/15

**PAOLO ASTORI SPA**

Via Mirabella, 9 - Maggiate Superiore
28013 Gattico (NO) - ITALY
Tel. (+39) 0322 838847
Fax (+39) 0322 880198
Web: www.paoloastori.com

**DOCUMENTO DI TRASPORTO (D.d.T.)****N° 3009****Data 27/03/2015****Pag. 1 / 1**

9449

KLX INC.
10000 NW 15TH TERRACE
MIAMI - FL
USA

Destinazione (Ship To):

370

KLX AEROSPACE SOLUTIONS-KLX INC.
9835 NW 14TH ST.

Cod. Cliente

33172 MIAMI - FL US

Pos.	Descrizione merce Part Number	Ordine/Riga (PO #/Line #)	Data Ordine (PO Date)	Quantità (Quantity)	U.M.	N° Lotto (Batch #)	Peso (Weight)	TR	QCIR	FAI
1	MS21069L3(Rev. REV1) - NAS697A3	0ZYP151/2	06/10/2014	1765	N	63372	-		X	
2	MS21069L3(Rev. REV1) - NAS697A3	0ZYP151/2	06/10/2014	12000	N	63372	-		X	
3	MS21069L3(Rev. REV1) - NAS697A3	0ZYP151/2	06/10/2014	4840	N	56887	-		X	
4	MS21069L3(Rev. REV1) - NAS697A3	0ZYP151/2	06/10/2014	10000	N	56887	-		X	
5	MS21069L3(Rev. REV1) - NAS697A3	0ZYP151/2	06/10/2014	10000	N	56887	-		X	
6	MS21069L3(Rev. REV1) - NAS697A3	0ZYP151/2	06/10/2014	1395	N	58604	-		X	
7	MS21069L3(Rev. REV1) - NAS697A3	0ZYP151/2	06/10/2014	10000	N	58604	-		X	
8	MS21069L3(Rev. REV1) - NAS697A3	0ZYP151/2	06/10/2014	10000	N	58604	-		X	
9	MS21069L3(Rev. REV1) - NAS697A3	0ZYP151/2	06/10/2014	10000	N	58604	-		X	
10	MS21069L3(Rev. REV1) - NAS697A3	0ZYP151/2	06/10/2014	10000	N	58604	-		X	
11	QCIR#58604 FOR MS21069L3(Rev. REV1) - NAS697A3	0ZYP151/2	06/10/2014	1	N		-			

*1 Kg 20,500x5 + 17 + 18 + 19 + 19,500 + 22,500 + 20 + 40,600 + 18,400 + 17
12,600 + 7*

1 pallet em 120x80x60 Kg. 320

- SUPPLIES RELEASED IN ACCORDANCE WITH REQUIREM. OF BAE/AG/SC1 PART 3- APPROVAL # BAE/AG/30631/MAA AND WITH AIRBUS SAS APPROVAL # 204788 Se sotto 150 lbs sped con fedex ground, account #0331-0149-0, mark: collect; se sopra 150 lbs sped con fedex economy, account #018757

Aspetto esteriore merce <i>16 cdt (pallet)</i>	Comprende DdT n° <i>stelle 3000 alle 3009</i>	Segue su DdT n°
Tramite spedizione VETTORE	Modalità di consegna PORTO ASSEGNATO	Firma conducente
Causale trasporto VENDITA PRODUZIONE	Data inizio trasporto	Firma destinatario
Primo vettore FEDERAL EXPRESS EUROPE INC. # 033101490	Data ritiro merce	Firma primo vettore
Secondo vettore <i>EXPEDITORS</i>	Data ritiro merce	Firma secondo vettore

**PAOLO ASTORI SPA**

Via Mirabella, 9 - Maggiate Superiore
28013 Gattico (NO) - ITALY
Tel. (+39) 0322 838847
Fax (+39) 0322 880198
Web: www.paoloastori.com

**CERTIFICATE OF CONFORMANCE****N° 3009****Date 27/03/2015****Pag 1 / 1****Purchased by:**

KLX INC.
10000 NW 15TH TERRACE
MIAMI - FL
USA

Shipped to:

KLX AEROSPACE SOLUTIONS-KLX INC.
9835 NW 14TH ST.

33172 MIAMI - FL US

This is to certify that goods listed below have been inspected in our plant and are up to your orders and to the specifications of the drawings mentioned therein.

Country of origin is ITALY.

Pos.	Part Number	Purchase Order	PO Date	Quantity	U.M.	Batch #	Cure Date Expiry Date
1	MS21069L3(Rev. REV1) - NAS697A3	0ZYP151/2	06/10/2014	1765	N	63372	
2	MS21069L3(Rev. REV1) - NAS697A3	0ZYP151/2	06/10/2014	12000	N	63372	
3	MS21069L3(Rev. REV1) - NAS697A3	0ZYP151/2	06/10/2014	4840	N	56887	
4	MS21069L3(Rev. REV1) - NAS697A3	0ZYP151/2	06/10/2014	10000	N	56887	
5	MS21069L3(Rev. REV1) - NAS697A3	0ZYP151/2	06/10/2014	10000	N	56887	
6	MS21069L3(Rev. REV1) - NAS697A3	0ZYP151/2	06/10/2014	1395	N	58604	
7	MS21069L3(Rev. REV1) - NAS697A3	0ZYP151/2	06/10/2014	10000	N	58604	
8	MS21069L3(Rev. REV1) - NAS697A3	0ZYP151/2	06/10/2014	10000	N	58604	
9	MS21069L3(Rev. REV1) - NAS697A3	0ZYP151/2	06/10/2014	10000	N	58604	
10	MS21069L3(Rev. REV1) - NAS697A3	0ZYP151/2	06/10/2014	10000	N	58604	
11	QCIR#58604 FOR MS21069L3(Rev. REV1) - NAS697A3	0ZYP151/2	06/10/2014	1	N		

- SUPPLIES RELEASED IN ACCORDANCE WITH REQUIREM. OF BAE/AG/SC1 PART 3- APPROVAL - BAE/AG/30631/MAA AND WITH AIRBUS SAS APPROVAL # 204788 Se sotto 150 lbs sped con fedex ground, account #0331-0149-0,mark:collect;se sopra 150 lbs sped con fedex economy,account #018757

Airbus approval # 204788 - BAE Approval # BAE/AG/30631/MAA - Complies with DFARS 252.225-7014.
Agusta-Westland QRS01 approval # A/0047

All claims regarding the parts in subject must be reported to seller promptly. Credit or replacement of parts may be limited to those parts for which traceability has been maintained by the buyer. The seller manufacturing lot identification number and return authorization (RMA) must accompany all returns. Any discrepancy claimed by the Customer must be made in writing to seller not later than ninety (90) days after the shipping date. The liability of seller on parts found to be defective is limited to replacement or rework of such goods, at seller option, and in no case is to exceed the invoice value of such goods. Under no circumstance will seller be liable for damages or cost incurred by buyer or subsequent user beyond the invoiced value of the parts in subject.



COMPANY WITH QUALITY MANAGEMENT
SYSTEM CERTIFIED BY DNV
N° 0100:2003

ISO 9001:2008, ISO 14001:2004, ISO 45001:2018
D.L. N. 48/2008 - 48/2008 - 48/2008

PAOLO ASTORI SPA - Via Mirabella, 9
28013 GATTICO (NO) - ITALY
Tel: +39 0323 398347 - Fax: +39 0323 398190
www.paoloastori.com

Certificate of Test

Manufacturer: Paolo Astori spa, Via Mirabella 9, 28013 Gattico (NO), ITALY

Report number: 1212
Date performed: 2014-12-05
Inspector: PAMELA, CALABRESE

Procurement spec: NASM25027
NUT, SELF-LOCKING, 250 F, 450 F, AND 800 F

Part code: 1OAD25A302M11
Part number: **MS21069L3**
Product standard: MS21069 (11/2010)
NUT, SELF-LOCKING, PLATE, TWO LUG, REDUCED RIVET SPACING, LOW HEIGHT

Revision level: see certificate of conformity

Batch number: **56887**
Batch quantity: 450000
Expiry date: Not applicable
Manufacturing date: 2014-12-01

Additional cross-references: NAS697A3

Customer: see certificate of conformity
Purchase order: see certificate of conformity
Quantity delivered: see certificate of conformity

1 Statement of Conformity

This is to certify that parts have been produced, controlled and quality assured according to the requirements of the applicable specification requested by the purchase order and/or the applicable standard drawing. Material, heat and surface treatments and manufacturing processes are the same as those used for the qualification approval. Samples for testing have been randomly selected from the production batch covered by this document. Country of origin is Italy. Unless otherwise stated, all special processes have been undertaken by Paolo Astori. This report shall not be reproduced except in full, without the written approval of Paolo Astori spa.

2 Disclaimer

All claims regarding the parts in subject must be reported to seller promptly. Credit or replacement of parts may be limited to those parts for which traceability has been maintained by the buyer. The seller's manufacturing lot identification number and return authorization (RMA) must accompany all returns. Any discrepancy claimed by the Customer must be made in writing to seller not later than ninety (90) days after the shipping date. The liability of seller on parts found to be defective is limited to replacement or rework of such goods, at seller option, and in no case is to exceed the invoiced value of such goods. Under no circumstances will seller be liable for damages or costs incurred by buyer or subsequent user beyond the invoice value of the parts in subject.

Batch # 56887

Inspector's signature

Signed on 2014-12-09 at 09:56:08



COMPANY WITH QUALITY MANAGEMENT
SYSTEM CERTIFIED BY DNV
EN 9100:2008

Qual. Syst. Pat. 12/A. n. 1. Deposito 11/11/2007
D.L. N. 11/11/2007. Ass. Imprese 01/01/2007

PAOLO ASTORI S.p.A. - Via Mirebena, 3
36015 MAGGIATE S/P. - BATTION (PD) - ITALY
Tel. +39 0429 308337 - Fax +39 0429 308130
www.paolastori.com

3 Components and raw materials

Component name	Component batch	Material batch	Heat	Material spec
		-3479	000B2066	SAE1042 (MEQU13/01C)

4 Special processes

Component name	Process	Specification
NUT	CAD PLATING	AMS-QQ-P-416C
NUT	LUBRICATION	NASM25027/NAS3356

5 Hardness

Component name	min hardness	max hardness	avg hardness
NUT	80.50 HR15N	82.50 HR15N	81.50 HR15N

6 Final inspection measurements

6.1 SELF LOCKING DEVICE EXAMINATION

Unit of measure: ATTR

OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
OK	OK								

Number of samples tested: 32

6.2 THREAD FIT (THREADS AND GAUGING AS8879-SYSTEM22)

Unit of measure: ATTR

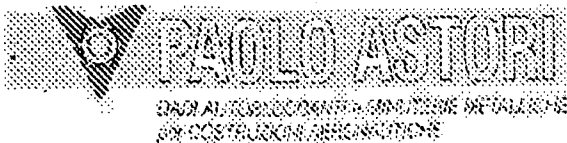
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
OK	OK	OK							

Number of samples tested: 13

Batch # 56887

Inspector's signature

Signed on 2014-12-09 at 09:56:08



COMPANY WITH QUALITY MANAGEMENT
SYSTEM CERTIFIED BY DNV
EN 9100:2008

DNV REG. NO. 123456789
C.E.A. N. 123456789 - Acc. Imp. No. 123456789

PAOLO ASTORI S.p.A. - Via Broletto, 15
20139 MILANO (MI) - ITALY
Tel. +39 02 58 98 98 98 - Fax +39 02 58 98 98 99
www.paoloastori.com

6.3 BEARING SURFACE SQUARENESS

Unit of measure: mm (inch)

0.08 (0.0031)	0.06 (0.0024)	0.07 (0.0028)	0.07 (0.0028)	0.07 (0.0028)	0.08 (0.0031)	0.07 (0.0028)	0.08 (0.0031)	0.07 (0.0028)	0.07 (0.0028)
0.07 (0.0028)	0.07 (0.0028)	0.06 (0.0024)							

Number of samples tested: 13

	Min	Max	Avg
Allowed:	- (-)	0.13 (0.0051)	
Found:	0.06 (0.0024)	0.08 (0.0031)	0.07 (0.0028)

6.4 SURFACE FINISH, PLATING OR SURFACE TREATMENT

Unit of measure: ATTR

OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
OK	OK	OK							

Number of samples tested: 13

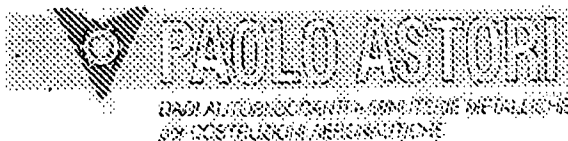
6.5 RIVET HOLE LOCATION AND ALIGNMENT

Unit of measure: mm (inch)

12.70 (0.5000)	12.70 (0.5000)	12.70 (0.5000)	12.70 (0.5000)	12.71 (0.5004)
12.71 (0.5004)	12.71 (0.5004)	12.70 (0.5000)	12.70 (0.5000)	12.71 (0.5004)
12.71 (0.5004)	12.70 (0.5000)	12.70 (0.5000)		

Number of samples tested: 13

	Min	Max	Avg
Allowed:	12.65 (0.4980)	12.75 (0.5020)	
Found:	12.70 (0.5000)	12.71 (0.5004)	12.70 (0.5002)



CONFORMITY WITH QUALITY MANAGEMENT
SYSTEM CERTIFIED BY ENY
- EN 9100:2008 -

CONFORMITY WITH QUALITY MANAGEMENT
SYSTEM CERTIFIED BY ENY
- EN 9100:2008 -

PAOLO ASTORI S.p.A. - VIA NARBONNE, 8
20121 MAGGIATE SUR - GALLARATE (NO) - ITALY
TEL. +39 0322 338837 - FAX +39 0322 338400
www.paoloastori.com

6.6 HEIGHT OF NUT

Unit of measure: mm (inch)

5.29 (0.2083)	5.30 (0.2087)	5.29 (0.2083)	5.30 (0.2087)	5.30 (0.2087)
5.31 (0.2091)	5.31 (0.2091)	5.32 (0.2094)	5.31 (0.2091)	5.30 (0.2087)
5.30 (0.2087)	5.30 (0.2087)	5.29 (0.2083)		

Number of samples tested: 13

	Min	Max	Avg
Allowed:	- (-)	6.30 (0.2480)	
Found:	5.29 (0.2083)	5.32 (0.2094)	5.30 (0.2087)

6.7 LOOSE OR HANGING BURRS

Unit of measure: ATTR

OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
OK	OK	OK							

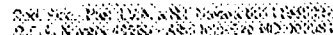
Number of samples tested: 13

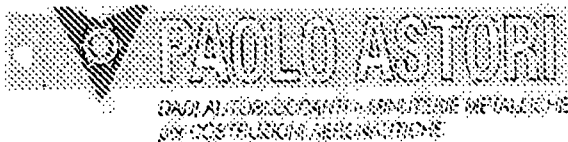
6.8 ALL OTHER DIMENSIONAL CHARACTERISTICS NOT COVERED

Unit of measure: ATTR

OK	OK	OK	OK	OK
----	----	----	----	----

Number of samples tested: 5





COMPANY WITH QUALITY MANAGEMENT
SYSTEM CERTIFIED BY DNV
EN 9100:2008

PAOLO ASTORI S.p.A. - Via Mazzini, 2
00144 Roma (RM) - Italy
Tel. +39 06 52 30 30 37 - Fax +39 06 52 30 30 38
www.paoloastori.com

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00144 Roma (RM) - Italy
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www.paoloastori.com

6.11 MAX LOCKING TORQUE 7th CYCLE

Unit of measure: Nm (lbf-in)

0.60 (5.3104)	0.74 (6.5496)	0.66 (5.8415)	0.61 (5.3990)	0.68 (6.0185)	0.62 (5.4875)	0.73 (6.4610)	0.70 (6.1955)	0.67 (5.9300)	0.65 (5.7530)
0.66 (5.8415)	0.60 (5.3104)	0.66 (5.8415)	0.64 (5.6645)	0.71 (6.2840)	0.72 (6.3725)	0.64 (5.6645)	0.68 (6.0185)	0.67 (5.9300)	0.65 (5.7530)
0.69 (6.1070)	0.67 (5.9300)	0.61 (5.3990)	0.65 (5.7530)	0.66 (5.8415)	0.73 (6.4610)	0.65 (5.7530)			

Number of samples tested: 27

	Min	Max	Avg
Allowed:	-	2.03 (17.9670)	
Found:	0.60 (5.3104)	0.74 (6.5496)	0.66 (5.8841)

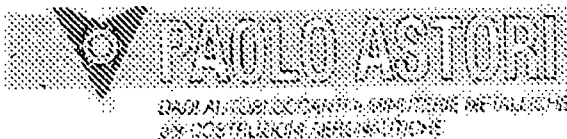
6.12 MAX LOCKING TORQUE 15th CYCLE

Unit of measure: Nm (lbf-in)

0.54 (4.7794)	0.64 (5.6645)	0.64 (5.6645)	0.61 (5.3990)	0.56 (4.9564)	0.63 (5.5760)	0.64 (5.6645)	0.59 (5.2219)	0.60 (5.3104)	0.64 (5.6645)
0.61 (5.3990)	0.58 (5.1334)	0.64 (5.6645)	0.64 (5.6645)	0.58 (5.1334)	0.60 (5.3104)	0.61 (5.3990)	0.59 (5.2219)	0.56 (4.9564)	0.56 (4.9564)
0.63 (5.5760)	0.61 (5.3990)	0.57 (5.0449)	0.65 (5.7530)	0.56 (4.9564)	0.61 (5.3990)	0.56 (4.9564)			

Number of samples tested: 27

	Min	Max	Avg
Allowed:	-	2.03 (17.9670)	
Found:	0.54 (4.7794)	0.65 (5.7530)	0.60 (5.3268)



CORPORATE WITH QUALITY MANAGEMENT
SYSTEM CERTIFIED BY ENY
N° 9103/2008

ENY S.p.A. - Via L. A. Monti 11/13/15/17/19
00144 Roma - Tel. 06/52211111 - Fax 06/52211112

PAOLO ASTORI S.p.A. - Via Madonna B.
SESTO NAGGATE SUR - GATIGNO (NO) - ITALY
Tel. +39 0322 888837 - Fax +39 0322 888188
www.paoloastori.com

6.13 MIN.BREAKAWAY TORQUE 1st CYCLE

Unit of measure: Nm (lbf-in)

1.00 (8.8507)	0.72 (6.3725)	0.78 (6.9036)	0.74 (6.5496)	0.85 (7.5231)
0.71 (6.2840)	0.95 (8.4082)	0.82 (7.2576)	0.81 (7.1691)	0.86 (7.6116)
0.88 (7.7887)	0.80 (7.0806)	0.89 (7.8772)	0.88 (7.7887)	0.83 (7.3461)
0.79 (6.9921)	0.94 (8.3197)	0.83 (7.3461)	0.69 (6.1070)	0.72 (6.3725)
0.86 (7.6116)	0.86 (7.6116)	0.72 (6.3725)	0.96 (8.4967)	0.73 (6.4610)
0.81 (7.1691)	0.96 (8.4967)			

Number of samples tested: 27

	Min	Max	Avg
Allowed:	0.23 (2.0357)	- (-)	
Found:	0.69 (6.1070)	1.00 (8.8507)	0.83 (7.3396)

6.14 MIN.BREAKAWAY TORQUE 7th CYCLE

Unit of measure: Nm (lbf-in)

0.64 (5.6645)	0.72 (6.3725)	0.62 (5.4875)	0.65 (5.7530)	0.59 (5.2219)	0.59 (5.2219)	0.59 (5.2219)	0.63 (5.5760)	0.62 (5.4875)	0.62 (5.4875)
0.64 (5.6645)	0.59 (5.2219)	0.58 (5.1334)	0.58 (5.1334)	0.59 (5.2219)	0.59 (5.2219)	0.67 (5.9300)	0.69 (6.1070)	0.64 (5.6645)	0.67 (5.9300)
0.58 (5.1334)	0.61 (5.3990)	0.58 (5.1334)	0.65 (5.7530)	0.63 (5.5760)	0.57 (5.0449)	0.65 (5.7530)			

Number of samples tested: 27

	Min	Max	Avg
Allowed:	0.23 (2.0357)	- (-)	
Found:	0.57 (5.0449)	0.72 (6.3725)	0.62 (5.5006)

PAOLO ASTORI S.p.A. - Via Mazzini, 3
 00185 ROMA (RM) - Italia
 Tel. 06 5922 308837 - Fax 06 5922 308198
 www.paoloastori.com

6.15 MIN.BREAKAWAY TORQUE 15th CYCLE

Unit of measure: Nm (lbf-in)

0.54 (4.7794)	0.66 (5.8415)	0.56 (4.9564)	0.59 (5.2219)	0.56 (4.9564)	0.60 (5.3104)	0.56 (4.9564)	0.53 (4.6909)	0.63 (5.5760)	0.58 (5.1334)
0.58 (5.1334)	0.63 (5.5760)	0.53 (4.6909)	0.61 (5.3990)	0.56 (4.9564)	0.63 (5.5760)	0.64 (5.6645)	0.54 (4.7794)	0.61 (5.3990)	0.60 (5.3104)
0.55 (4.8679)	0.54 (4.7794)	0.64 (5.6645)	0.55 (4.8679)	0.59 (5.2219)	0.57 (5.0449)	0.58 (5.1334)			

Number of samples tested: 27

	Min	Max	Avg
Allowed:	0.23 (2.0357)	- (-)	
Found:	0.53 (4.6909)	0.66 (5.8415)	0.58 (5.1662)

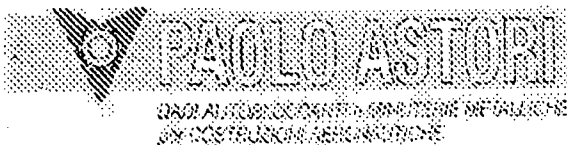
6.16 PUSH-OUT

Unit of measure: N (lbf)

490.00 (110.1564)	480.00 (107.9083)	500.00 (112.4045)	510.00 (114.6526)	490.00 (110.1564)
490.00 (110.1564)	480.00 (107.9083)	500.00 (112.4045)	500.00 (112.4045)	500.00 (112.4045)
510.00 (114.6526)	510.00 (114.6526)	500.00 (112.4045)	500.00 (112.4045)	500.00 (112.4045)
490.00 (110.1564)	500.00 (112.4045)	480.00 (107.9083)	480.00 (107.9083)	500.00 (112.4045)
500.00 (112.4045)	490.00 (110.1564)	490.00 (110.1564)	500.00 (112.4045)	500.00 (112.4045)
510.00 (114.6526)	510.00 (114.6526)			

Number of samples tested: 27

	Min	Max	Avg
Allowed:	445.00 (100.0400)	- (-)	
Found:	480.00 (107.9083)	510.00 (114.6526)	496.67 (111.6551)



COMPANY WITH QUALITY MANAGEMENT
SYSTEM CERTIFIED BY DNV
= EN 9100:2008 =

PAOLO ASTORI S.p.A. - Via Nardone, 3
00144 Roma (RM) - Italy
Tel. +39 0622 88887 - Fax +39 0622 88888
www.paolastori.com

PAOLO ASTORI S.p.A. - Via Nardone, 3
00144 Roma (RM) - Italy
Tel. +39 0622 88887 - Fax +39 0622 88888
www.paolastori.com

6.17 DISCONTINUITIES

Unit of measure: ATTR

OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
OK	OK								

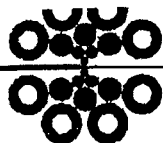
Number of samples tested: 32

6.18 23-HOURS STRESS EMBRITTLEMENT (ELONGATION METHOD)

Unit of measure: ATTR

OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
----	----	----	----	----	----	----	----	----	----

Number of samples tested: 10



GIUSEPPE & F.lli BONAITI S.p.A.

NASTRO E FILO DI ACCIAIO

Piazza Verdi, 3/A
23801 CALOLZIOCORTE (LC)
tel. 0341 633080 fax 0341 633081
internet: www.bonaitigiuseppe.it
e-mail: info@bonaitigiuseppe.it

CERTIFICATO DI CONTROLLO

(Tipo 3.1 secondo norma EN 10204:2004)

Nr. **8559** del **28/08/14**

Spett.

PAOLO ASTORI SPA
VIA MIRABELLA 9
28013 MAGGIATE SUPERIORE NO

Vs. Ord. 28254 del 01/07/14

Ns. Con. 34/001566-01 del 03/07/14

DDT N. **327** del **28.8.14**

PRODOTTO

Cod.

NASTRO C45E SAE1042 MM.21,0X0,86 ASTM A
29/A29M(CHEM ONLY),ASTM A576(CHEM ONLY)

PAOLO ASTORI SPA

-3479

RAW MATERIAL LOT

RISULTATI PROVE

FOGLIO DI LAVORAZIONE

FDL LA 2014 003668

Documento N. 1639 del 31/07/14

Prova

RESISTENZA A TRAZIONE N/MM2 498

ALLUNGAMENTO % A80MM. 29,12

CARICO UNIT. SCOST. PROP. RP0.2 309,00

PIEGAMENTO TRASVERSALE 180° NO ROTTURA

Prova

RESISTENZA A TRAZIONE N/MM2 498

ALLUNGAMENTO % A80MM. 26,74

CARICO UNIT. SCOST. PROP. RP0.2 329,00

PIEGAMENTO TRASVERSALE 180° NO ROTTURA

Certifichiamo che il prodotto è conforme alle richieste della conferma d'ordine.

LABORATORIO PROVE

A. Putzu

ANALISI COLATA

(Verifica effettuata dal fornitore materia prima)

Colata 000B2866

L. 42616 / 001 . E

C	Mn	Si	P	S	Al	Cr	Cu	Ni	Mo
0,467	0,675	0,200	0,012	0,005	0,030	0,300	0,025	0,042	0,001

M.COM.003 REV.2



**SALZGITTER
FLACHSTAHL**

Ein Unternehmen der Salzgitter Gruppe

Test report 2.2
DIN EN 10204
(A02)

No. (A03) 1/1
Page
Date

No. (A07) 34/90/000350 24.02.2014 No. (A07) 34/90/000350
Purchaser Guiseppe & Frat. Bonaiti SpA Customer Guiseppe & Frat. Bonaiti SpA
(A08) 23081 CALOLZIOCORTE (LC) (A08) 23081 CALOLZIOCORTE (LC)
ITALIEN ITALIEN

Product Hot rolled wide strip
(B01)

Works order No.
(A05)
Dispatch note No. 08.06.2014
Inspection WS
(A05)

Steel grade and terms of delivery C 45
(B12-B15) DIN EN 10083 T.2/10.2006
CHI/2451 Rev.3-15.06.11
DIN EN 10051:2011-02

Material data (B01-B09)

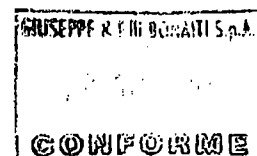
Item	Quantity (B01)	Product No. (B07)	Heat No. (B07)	Cond. of delivery (B04)	Thickness x Width (B08-B11)	mm x mm
01	2		000B2066	U	1,50 x 1150,0	
Σ	2	Weight (B12)	25.160	kg	U: as rolled	

Ladle analysis (C74-C84)

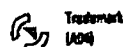
Heat No. (B07)	C % 0,42 - 0,47	Si % ≤ 0,40	Mn % 0,50 - 0,80	P % ≤ 0,045	S % ≤ 0,003	N % ≤ 0,003	Al % ≤ 0,030	Cu % ≤ 0,025	Cr % ≤ 0,06	Ni % ≤ 0,042
000B2066	0,467	0,200	0,675	0,012	0,005	0,004	0,030	0,025	0,300	0,042
Heat No. (B07)	Mo %									
000B2066	0,001									

Steel making: Basic oxygen process
(C70)

Our products are free of radioactive substances and do not exceed the clearing limit value of 100 Bq/kg, which guarantees the compliance with limit values given in the Radiation Protection Ordinance (StrlSchV) for the unrestricted clearance of solid material (StrlSchV Annex III, Section 5) for ferrous nuclides.



We hereby certify that the delivered material complies with the terms of the order.
(Z01)



Salzgitter Flachstahl GmbH
Eisenhüttenstr. 99
D-38229 Salzgitter
(A01)

Inspection Representative
(Z02)

Kratz

This certificate was prepared by a suitable data processing system and is valid without signature according to EN 10 204, section 5.



P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.KLXAerospace.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172


Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to KLX Aerospace Solutions.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO28135

LNE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
2	20	EA	MS21083C8		39223-000	MACLEAN-ESNA	019L2		


Jason Lewis
Senior Director, Global Quality

04/15/15

Inv # 04/15/15



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FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO28135

LNE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
4	50	EA	MS21069-04		TC193	ALCOA FASTENING/REPU	52828		


Jason Lewis
Senior Director, Global Quality

04/15/15

Inv # 04/15/15



P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.KLXAerospace.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172


Material Certification

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FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO28135

LNE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
3	50	EA	MS21075L5		5346033-000	ALCOA KAYNAR FULLERT	15653		



Jason Lewis
Senior Director, Global Quality

04/15/15

Inv # 04/15/15

**REPUBLIC FASTENER MANUFACTURING CORPORATION**

1300 RANCHO CONEJO BOULEVARD, NEWBURY PARK, CA 91320 (805) 498-6621

CERTIFICATE OF TEST

WE HEREBY CERTIFY THAT ALL MATERIALS USED IN THE MANUFACTURE OF PARTS COVERED BY THE REPORT CONFORM TO THE MATERIAL SPECIFICATIONS CALLED FOR BY THE PURCHASE ORDER. WE FURTHER CERTIFY THAT THE PARTS ARE MANUFACTURED IN ACCORDANCE WITH APPLICABLE DRAWINGS OR SPECIFICATIONS CURRENT ON THE DATE OF MANUFACTURE. TEST REPORTS COVERING MATERIALS IN THESE PARTS AND INDICATING CONFORMANCE WITH APPLICABLE SPECIFICATIONS ARE ON FILE AND SUBJECT TO EXAMINATION. PARTS AS SHIPPED HAVE NEVER BEEN IN CONTACT WITH MERCURY. **THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT WRITTEN APPROVAL OF THE LABORATORY.**

PARTS MANUFACTURED IN: ☒ U.S.A ☐ MEXICO☐ IN ACCORDANCE WITH: DFAR 252.225.7014 ALT. I

Deefina Martinez
Signature of Quality Assurance Representative

11-03-08
Date

P.O.: 0FJ839
Quantity Ordered: 78,420
Customer: M&M AEROSPACE
Description: PLATE NUT
Also Certified To: NAS697X04L REV.10

Part No. MS21069-04 REV.NC
Date Cert Ordered: 11-03-08
Lot No.: TC193
Procurement Spec: NASM25027
Additional Info: N/A

IF APPLICABLE, CHECK ONE BELOW:

- ☐ **FAA CERTIFICATION (PMA):** IT IS HEREBY CERTIFIED THAT (A) THE PARTS AND/OR MATERIALS REFLECTED HERE-IN WERE PRODUCED UNDER FEDERAL AVIATION ADMINISTRATION APPROVED MANUFACTURING AND QUALITY CONTROL SYSTEMS/METHODS AS SET FORTH IN FEDERAL AVIATION REGULATION, PART 21, SUB-PART K, PARAGRAPH 21.303 AND (B) ALL PARTS AND/OR MATERIALS ARE CERTIFIED NEW, CONFORMS TO THE DESIGN DATA AND ARE IN AIR WORTHY CONDITION.

Signature of Quality Assurance Representative

Date

- ☐ **TSO-C148 STATEMENT:** THE PARTS CONTAINED IN THIS SHIPMENT HAVE BEEN MANUFACTURED AND INSPECTED IN ACCORDANCE WITH TSO-C148. THE CONDITIONS AND TESTS REQUIRED FOR TSO APPROVAL OF THIS ARTICLE ARE MINIMUM PERFORMANCE STANDARDS. AIRCRAFT FASTENERS APPROVED UNDER THIS TSO ARE NOT NECESSARILY INTERCHANGEABLE WITH OTHER AIRCRAFT FASTENERS APPROVED UNDER THIS TSO. FASTENERS OF SIMILAR DIMENSIONAL PROPERTIES MAY HAVE WIDELY VARYING PERFORMANCE AND METALLURGICAL PROPERTIES. SUBSTITUTION OF PARTS MAY ONLY BE DONE IF ACCEPTABLE TO OR APPROVED BY THE ADMINISTRATOR.

Signature of Quality Assurance Representative

Date



REPUBLIC FASTENER MANUFACTURING CORPORATION
1300 RANCHO CONEJO BOULEVARD, NEWBURY PARK, CA 91320 (805) 498-0621

QUALITY CONTROL INSPECTION REPORT

LOT NUMBER	BPS-N-70 ATTRIBUTE PLAN	NOTE	28027 ATTRIBUTE PLAN
TC193	LOT SIZE 85	ALL SAMPLES TESTED MUST MEET OR EXCEED THE MINIMUM REQUIREMENTS	LOT SIZE 85
	UNDER 9 2 9 THRU 15 3 15 THRU 25 4 25 THRU 50 5 51 THRU 100 7 101 THRU 250 13 251 THRU 500 15		UNDER 10M 5 10M THRU 50M 10 50M THRU 100M 15 OVER 100M 27

PUSH-OUT TEST					DATE	MIN.	POUNDS	PUSH-OUT REQUIREMENTS
50	50	50	50	50	10-31-08	40	PASS	FAIL
50	50	50	50	50				
50	50	50	50	50				

TORQUE-OUT TEST					DATE	MIN.	INCH POUNDS	TORQUE OUT REQUIREMENTS
							PASS / FAIL	

WRENCHING TORQUE TEST					DATE	MIN.	INCH POUNDS	WRENCHING TORQUE REQUIREMENTS
							PASS / FAIL	

TENSILE TEST					DATE	MIN.	LBS.	STAMP
TEST BOLT MAS160416					10-30-08	750	28027 REQ. 750	RFM 128
750	750	750	750	750				
750	750	750	750	750				
750	750	750	750	750				
HIGH = 750 [X] PROOF LOAD TEST								
LOW = 750 [] TESTED TO FAILURE								
R = 0 (RANGE = HIGH MINUS LOW)								
X = 750 (AVERAGE TENSILE STRENGTH)								
R x .4 = 0								
X - .4R = 750								

QCIR-007.PUB



REPUBLIC FASTENER MANUFACTURING CORPORATION
1300 RANCHO CONEJO BOULEVARD, NEWBURY PARK, CA 91320 (805) 498-0621

QUALITY CONTROL INSPECTION REPORT

LOT NUMBER	BPS-N-70 ATTRIBUTE PLAN	NOTE	28027 ATTRIBUTE PLAN
TC193	LOT SIZE 85 ACC		LOT SIZE 85 ACC
	UNDER 9 2 9 THRU 15 3 15 THRU 25 4 25 THRU 50 5 51 THRU 100 7 101 THRU 250 13 251 THRU 500 15		UNDER 10M 5 10M THRU 50M 10 50M THRU 100M 15 OVER 100M 27

TORQUE TEST												DATE	MIN.	IN. LBS. (1st ON)	MIN.	IN. LBS. (1st BRK)	STAMP
TEST BOLT MS16997-04												10-31-08	5.0	0.5			RFM 103
CY	ON	BRK	ON	BRK	ON	BRK	ON	BRK	ON	BRK	ON	BRK	ON	BRK	ON	BRK	
1	2.0	1.0	3.0	1.5	3.0	2.0	3.0	1.5	3.0	1.5							
7	2.0	1.0	3.5	2.5	3.5	2.5	3.0	1.5	4.5	3.0							
15	2.0	1.0	3.5	3.0	3.5	2.0	3.5	2.0	3.0	2.5							
1	2.0	0.5	2.0	1.0	3.0	1.5	2.0	1.0	3.5	2.5							
7	1.5	0.5	2.0	1.0	3.5	2.5	1.5	1.0	4.0	3.0							
15	1.5	1.0	2.0	1.0	4.0	2.5	1.5	1.0	3.5	3.0							
1	2.5	1.5	2.5	1.5	2.0	1.0	3.5	2.0	3.0	1.5							
7	2.5	1.5	3.5	2.0	2.0	1.0	3.5	3.0	3.5	2.5							
15	3.0	2.0	3.5	2.5	2.5	1.5	4.5	3.0	4.0	3.0							
1																	
7																	
15																	

HARDNESS TEST												DATE	MIN.	REQUIREMENT	STAMP
CONVERTED FROM BRIN SCALE TO HRC												10-31-08	34	38	RFM 103
HRC	37	38	37	36	38	37	38	38	37	37	38	36	37	38	36
30N	56.5	57.5	56.5	56	57.5	56.5	57.5	57.5	56.5	56.5	57.5	56	56.5	57.5	56
15N															

★ CLIPS AND CLIP NUTS ONLY

QCIR-008.PUB



REPUBLIC FASTENER MANUFACTURING CORPORATION
1300 RANCHO CONEJO BOULEVARD, NEWBURY PARK, CA 91320 (805) 496-6621

QUALITY CONTROL INSPECTION REPORT

PART NAME Plate Nut		PART NUMBER MS21069-04		REV NC	NOTES also Conforms to NAS 697X04L Rev.10
TOTAL LOT QTY 78,420	LOT NUMBER TC193	SAMPLE SIZE 500	LEVEL II 65		
INSPECTION LEVELS ACCEPT / REJECT QUANTITIES	MAJOR A - II ACCEPT 0	MAJOR B - ACCEPT 0	MINOR - ACCEPT 0	C=0	
	A REJECT 1	B REJECT 1	REJECT 1		
A.Q.L.	CHARACTERISTIC DESCRIPTION	DEFECT	INSPECTION MEDIA		
MAJOR A	SELF-LOCKING FEATURE MISSING	0	VISUAL		
MAJOR B	THREAD FIT	0	THREAD GAGE		
	BEARING SURFACE SQUARENESS	0	TABLE SQUARENESS GAGE		
	SURFACE FINISH, PLATING, OR SURFACE TREATMENT	0	VISUAL		
	RIVET HOLE LOCATION AND ALIGNMENT (PLATE NUTS ONLY)	0	FUNCTIONAL ALIGNMENT OR VARIABLE GAGE		
	OVERALL HEIGHT OF NUT	0	0-8" CALIPER		
	LENGTH AND WIDTH	0	0-6" CALIPER		
MINOR	DIMENSIONS OF WRENCHING ELEMENT (WRENCHABLE NUTS ONLY)	0	0-6" CALIPER		
	LOOSE OR HANGING BURRS	0	VISUAL		
	ALL OTHER DIMENSIONAL CHARACTERISTICS NOT COVERED ABOVE	0	SMI		
QUANTITY ACCEPTED 78,420 DATE 10-31-08 ACCEPTANCE					

QCIR88009.PUB



REPUBLIC FASTENER MANUFACTURING CORPORATION
1300 RANCHO CONEJO BOULEVARD, NEWBURY PARK, CA 91320 (805) 496-6621

QUALITY CONTROL INSPECTION REPORT

Lot Number TC193						
SAMPLE SIZE	CHARACTERISTIC DESCRIPTION	INSPECTION MEDIA	1ST ARTICLE	DEFECT	ACCEPT / REJECT	PRODUCTION RELEASE DATE
NUT	MATERIAL: CAL STRIP HEAT: 288724 SIZE: 020X-8/12	VENDOR CERTIFICATIONS ALLOY VERIFICATION	RFM 27	0	ACC	10/26/08
CAP	MATERIAL: HEAT: SIZE:	VENDOR CERTIFICATIONS ALLOY VERIFICATION		0		
BASKET	MATERIAL: HEAT: SIZE:	VENDOR CERTIFICATIONS ALLOY VERIFICATION		0		
CLIP	MATERIAL: HEAT: SIZE:	VENDOR CERTIFICATIONS ALLOY VERIFICATION		0		
15 PCS	AMS5732, AMS5525 STAINLESS ONLY AGED LOAD	TENSILE R/C HARDNESS TESTER		0		
15 PCS	AMS-H-6875A, MIL-H-6875 STEEL ONLY AUSTEMPERING LOAD 28616	TENSILE R/C HARDNESS TESTER		0	RFM 112	10/22/08
SEE LOG	AMS2410J [] AMS2411D [] SILVER PLATING LOAD	VISUAL ADHESION & THICKNESS ASTM B567		0		
SEE LOG	AMS-QQ-P-416B Class [] 1 1/2 [] 3 CAD PLATING LOAD 21338	VISUAL ADHESION & THICKNESS ASTM B567		0	RFM 103	10/27/08
10 PCS	EMBRITTLMENT RELIEF BAKE 375°F ±25° FOR 23 HOURS MIN. CAD PLATING LOAD 21338	23 [] NUT 48-50 [] CLIP HOUR STRESS AT ROOM TEMP. PER NASM1312, TEST 14		0	RFM 103	10/27/08
5 PCS	EMBRITTLMENT RELIEF BAKE 375°F ±25° FOR 23 HOURS MIN. CAD PLATING LOAD	96 [] HOUR STRESS AT SERVICE TEMP. PER NASM1312, TEST 14		0		
ASQC Z1.4	GOLD CHROMATE TREATMENT TYPE II	VISUAL - WORKMANSHIP SALT SPRAY TEST OF AMS-QQ-P-416		0	RFM 103	10/27/08
SEE LOG	PASSIVATED PER AMS-QQ-P-35, AMS2700 STAINLESS STEEL ONLY	VISUAL SALT SPRAY TEST PER ASTM B117		0		
ASQC Z1.4	MAGNETIC PERMEABILITY <2.0 (AIR 1.0) FOR A FIELD STRENGTH = 200 OERSTEDS	INDICATOR PER ASTM A342-04 METHOD 3, CORROSION RESISTANT STEEL ONLY		0		
SEE LOG	NON-DESTRUCTIVE TESTING DISCONTINUITIES SAMPLE [] 100% []	MAGNETIC PARTICLE PER ASTM E1444 OR FLOURESCENT PENET. PER ASTM E1417		0		
15 PCS	DRY FILM LUBRICANT PER AS5272 TYPE 1 BATCH NO: _____	VISUAL - WORKMANSHIP ADHESION, THICKNESS SALT SPRAY TEST OF NASM1312, TEST 1		0		
8 PCS 15 PCS	MICROSTRUCTURE	BPS-N-70 [] NAS3350 []		0	RFM 103	10/28/08
ASQC Z1.4	THREADS PER MIL-S-8879C, AS8879	METHOD B, SYSTEM 22		0	RFM 103	10/29/08

QCIR-006.PUB REV.J 01/13/06

CERTIFIED TEST REPORT



Calstrip Steel Corporation

7140 Bendini Blvd. * Los Angeles, CA 90040-3388
(323)726-1345 * Fax (323)722-8269

Customer: REPUBLIC FASTENER CO. Address: 1300 RANCHO CONEJO BLVD. NEWBURY PARK, CA 91320	Order Number: S42087 / W52708 Customer PO: 13559 Shipped Date: 04/29/2008 Packlist ID: 69478
Part ID: R620.015-CS Description: HC.CR.1050.020X0.812XCOIL Drawing #: R620.015 Rev #:	Material Spec: 1050 AMS-5085G, AMS QQS-700B, QQS-635, ASTM A682-05, ASTM A684-05

HeatID: 288724

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Ni	Cr	Cu	Mo	Resi
0.5000	0.6200	0.0110	0.0010	0.2260	0.0450	0.0500	0.0970	0.0150	
W	V	Sn	Ti	Al	Ca	Zr	Co	N	B
	0.0010	0.0070	0.0030	0.0230				0.0090	0.0005

MECHANICAL AND PHYSICAL PROPERTIES

Yield	Tensile	Elong %	Hardness	Bend Test	Skid Numbers	# of Coils	Weight
50,300	72,200	27.0	HRB 77	OK	W52708-1	10	1,856
					W52708-2	10	1,726
						20	3,582

Grain Size	Olsen Test	Spher%	Decarb	Reduct %
8		100	0	

Comment: SOURCE- NUCOR (USA)

08-531



All work on this order has been performed in accordance with the Company's Quality Assurance Manual.

Form #:

MARIO VARGAS Technical Services

Print Date: 5/1/2008

Page: 2



CHERRY®
AEROSPACE
SPS Fastener Division, a PCC Company

Cherry Aerospace
1224 East Warner Avenue
Post Office Box 2157
Santa Ana, CA 92707-0157
USA



PACKING LIST

Order No: SO380394

Page: 1

Order Date: 11/22/13

Print Date: 08/04/14



Sold-To: 10010256

Ship-To: 10043376

S O L D T O	B/E AEROSPACE, INC CONSUMABLES MANAGMENT 10000 NW 15TH TERRACE MIAMI, FL 33172 USA
----------------------------	--

S H I P T O	B/E AEROSPACE, INC CONSUMABLES MGMT 9835 NW 14TH ST MIAMI, FL 33172 USA
----------------------------	---

Salesperson (s):205

Purchase Order: 0TJA80

Credit Terms: Net 30
Net 30

Ship Via: YRC

FOB: Origin - Collect

Remarks:

IF UNDER 150# SHIP FEDEX GROUND COLLECT ACCOUNT# 0331-0149-0
IF OVER 150# SHIP FED EX NATIONAL ACCOUNT# 018757 - DO NOT INSURE
DO NOT PREPAY AND ADD TO ANY OF THE ABOVE METHODS
DO NOT SHIP EARLIER THAN TWO (2) WEEKS PRIOR TO DUE DATE UNLESS SPECIFIED.

BRITISH AEROSPACE APPROVAL# BAe/AG/30158/MAA TO BAe/AG/QC/SC1 PART 3
AIRBUS APPROVAL# 30114

GOODS OF UNITED STATES ORIGIN

ECCN: EAR99

*IF APPLICABLE, PART MEETS DFARS CLAUSE 252.225-7009 ALT I
*PREFERENCE FOR DOMESTIC SPECIALTY METALS

CHERRY DOES NOT ACCEPT QAP33 A.3 ITEM 3

UNLESS OTHERWISE SPECIFIED ON THIS ORDER, CHERRY WILL MANUFACTURE AND
CERTIFY PARTS TO THE PART NUMBER'S LATEST REVISION. LATEST REVISIONS ARE
SHOWN AT [HTTPS://BIZPARTNER.CHERRYAEROSPACE.COM/PARTREVISIONS.HTM](https://bizpartner.cherryaerospace.com/partrevisions.htm) UNDER
"PART NUMBER REVISION LIST."

FOR EUROPEAN SHIPMENTS WITH A MAX WEIGHT OF 150# PER PKG AND/OR A MAX LENGTH
OF 274CM PLEASE USE FEDEX ACCOUNT# 2259-703-43

GERMANY VAT# DE276905993 AND UK VAT# GB117174527

RELEASE# D8GM0TJA80

TEST REPORTS ENCLOSED DO NOT DESTROY

These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to US law is prohibited

CERTIFICATION

ATTENTION: PURCHASING DEPARTMENT

The material and/or parts we are furnishing in this shipment (as shown above) on the subject Purchase Order conform to the order and applicable specifications. Evidence that the material and/or parts meet the specifications and results of all tests for each lot affected will be in our files and will be available for your inspection at any reasonable time.

Quality Assurance Representative

Signed

SIM NGUYEN



CHERRY®
AEROSPACE
SPS Fastener Division, a PCC Company

Cherry Aerospace
1224 East Warner Avenue
Post Office Box 2157
Santa Ana, CA 92707-0157
USA



PACKING LIST

Order No: S0380394
Order Date: 11/22/13
Print Date: 08/04/14

Page: 2



Sold-To: 10010256



Ship-To: 10043376

S
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B/E AEROSPACE, INC
CONSUMABLES MANAGMENT
10000 NW 15TH TERRACE
MIAMI, FL 33172
USA

S
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P
T
O

B/E AEROSPACE, INC
CONSUMABLES MGMT
9835 NW 14TH ST
MIAMI, FL 33172
USA

Ln	Item Number	Site T Location	Lot/Serial	Qty Open Qty to Ship	UM	Promised Shipped
2	CR7311U-06-03 Customer Item: MS90354U0603 BACB30VW6A03U 	1600	D0705 87949332	9332.0	EA	08/07/14 

TEST REPORTS ENCLOSED
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Quality Assurance Representative

Signed

SIM NGUYEN



MACLEAN-ESNA

MANUFACTURER'S AFFIDAVIT

I, Cliff Hufstedler hereby certify that the below named parts
(Name)

were manufactured by MacLean-ESNA located at
(Company Name)

611 Country Club Rd. Pocahontas, AR 72455
(Street Address) (City) (State) (Zip Code)

Part No.	Part Description
<u>180846 79NTE-080</u> <u>Cust PN MS21083CB</u>	<u>Steel Nuts</u>

I further certify that should any change in the manufacturing process occur which changes the country of origin, I will immediately notify M&M Aerospace Hardware, Inc. in writing and provide a new Manufacturer's Affidavit.

Cliff Hufstedler
(Signature)

Plant Manager
(Title)

8/19/08
(Date)

MACLEAN-ESNA
A MACLEAN-FOGG COMPANY
611 COUNTRY CLUB ROAD
POCAHONTAS, ARKANSAS 72455
(870) 892-5201

TO: M&M AEROSPACE HARDWARE
10000 N.W. 15 TERRACE
MIAMI, FL 33172

DATE: 8/19/2008

SUBJECT:	YOUR ORDER NUMBER	OFL390	ITEM NUMBER	1
	ESNA ORDER NUMBER	052910		
	FSCM/ CAGE NUMBER	019L2		
	YOUR PART NUMBER	MS21083C8		
	CERTIFIED AS	MS21083C8 PER NASM21083 REV 1		
	ESNA PART NUMBER	79NTE-080		
	QUANTITY	50000		
	PACKING LIST NUMBER	46527		
	SHOP ORDER NUMBER	39223 - 000		

Gentlemen:

This is to certify that all applicable plating, heat treating, and inspection processing and that all material used in the manufacture of subject parts conform to the specification or drawings received by ESNA and set forth in the subject purchase order; that the parts are of good material and workmanship; and that all necessary records, including chemical and physical where applicable, will be made available for review upon request. The inspection and test reports provided represent the actual attributes of the items furnished on this contract and indicate full compliance with all applicable specification and contract requirements.

This is to certify that the materials supplied against the subject order are free of contamination by presence of mercury.

Very truly yours,

MACLEAN-ESNA
A MACLEAN-FOGG COMPANY

Mara Kildow

for Jim Earley
Quality Assurance Manager

NOTE: The magnetic permeability of subject parts was tested and found to be less than 2.0 (air = 1.0) for a field strength of H = 200 oersteds using an indicator in accordance with ASTM A342.

MACLEAN-ESNA
A MACLEAN-FOGG COMPANY
POCAHONTAS, ARKANSAS 72455

CERTIFICATE OF QUALITY COMPLIANCE

DATE: 8/19/2008

TO: M&M AEROSPACE HARDWARE
10000 N.W. 15 TERRACE
MIAMI, FL 33172

ESNA PART NO. 79NTE-080
MANUFACTURER'S LOT SIZE 55929 (APPROX. WT. COUNT)
MANUFACTURED UNDER SHOP ORDER NUMBER 39223 - 000
ORIGINATED AS SHOP ORDER NUMBER

ACCEPTANCE TESTS PER NASM 25027

MATERIAL RAW MATERIAL TYPE .750 HEX 303 SS BAR DATE MFG: 07-08
RAW MATERIAL CONFORMS TO AMS 5640 TYPE 1 AS EVIDENCED BY THE ATTACHED MILL CERTIFICATION. ESNA SHOP
ORDER NO. 39223 - 000 MILL HEAT NO. 736973 VENDOR CARPENTER TECHNOLOGY
RED NYLON IS A TRADEMARK OF ELASTIC STOP NUT. THIS ASSURES TRACEABILITY OF PARTS TO SOURCE. MATERIAL
CERTIFICATION WITH HEAT NUMBERS ASSURES TRACEABILITY TO VENDOR OF RAW MATERIAL. NONMETALLIC INSERT
CONFORMS TO ASTM D4066-00. (ZYTEL 103)

FINISH FINISH TYPE PASSIVATED PER QQ-P-35C
LUBRICANT TYPE WAX LUBRICANT

AXIAL STRENGTH REQUIRED LBS. MINIMUM 7,400 ALL SAMPLE PIECES TESTED MEET OR EXCEED
EXCEEDS LBS. 8,000 MINIMUM REQUIREMENTS.
SAMPLE SIZE 15 PIECES.

WORKMANSHIP CONFORMS DIMENSIONALLY TO MS21083C8 PER NASM21083 REV 1
STANDARD: BEARING SURFACE SQUARENESS AS SPECIFIED PER NASM 25027

DISCONTINUITIES

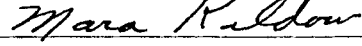
WITHIN LIMITS PER NASM 25027 AND MIL-STD-271D/ACN 1/ AND REV E/ NOTICE 2/ AND REV F/ NOTICE 1.

MT PER SPEC 725	SAMPLE SIZE(MT - PCS):	0
	ACCEPTED(PCS):	N/A
PT PER SPEC 731 AA	SAMPLE SIZE(PT - PCS):	32
	ACCEPTED(PCS):	32

LOCKING TORQUE MAXIMUM LOCKING(IN. LBS.): 150
MINIMUM BREAKAWAY(IN. LBS.): 18
1ST CYCLE MAXIMUM LOCKING(IN. LBS.): 50
7TH CYCLE MAXIMUM LOCKING(IN. LBS.): 50
15TH CYCLE MAXIMUM LOCKING(IN. LBS.): 48
15TH MINIMUM BREAKAWAY(IN. LBS.): 38
ALL SAMPLE PIECES MEET
OR EXCEED MINIMUM REQTS.
SAMPLE SIZE 15 PIECES

MERCURY FREE CLAUSE WE CERTIFY THAT NO POSSIBILITY EXISTS FOR MERCURY CONTAMINATION TO OCCUR
DURING MANUFACTURE, ASSEMBLY, OR TESTING OF PARTS ON THIS CONTRACT.

I CERTIFY THAT THE ABOVE TEST RESULTS AND/OR STATEMENTS ARE CORRECT AND REPRESENT THE PRODUCTS AS SUPPLIED.

SIGNATURE 
JIM EARLEY, QUALITY ASSURANCE MANAGER

MACLEAN-ESNA
A MACLEAN-FOGG COMPANY
POCAHONTAS, ARKANSAS 72455

LOCKING TORQUE TEST

CUSTOMER NAME M&M AEROSPACE HARDWARE
10000 N.W. 15 TERRACE
MIAMI, FL 33172

CUSTOMER DUE DATE

8/19/2008

CUSTOMER PO # OFL390
ITEM NUMBER 180846
QUANTITY 50000
THREAD SIZE .500 -20UNJF-3B
HEX .741 - .752
LINE NO 1
MS NUMBER - REF: MS21083C8 PER NASM21083 REV 1

ESNA ORDER # 052910
PART # 79NTE-080
SHOP ORDER # 39223 - 000
LOT QUANTITY 55929
PARENT SHOP ORDER # -

Sample Size & Requirements per Spec NASM25027

SampleSz 15

REQUIREMENT: 1ST, 7TH, 15TH, INSTALLATION MAXIMUM TORQUE 150
15TH BREAKAWAY MINIMUM TORQUE 18

SAMPLE #	1ST ON	1ST BREAK	7TH ON	7TH BREAK	15TH ON	15TH BREAK
1	42	52	40	44	34	40
2	40	50	39	42	32	38
3	37	42	32	40	32	40
4	42	50	40	42	40	43
5	40	45	38	40	37	40
6	45	48	42	44	40	42
7	50	55	39	42	38	40
8	50	60	42	48	40	44
9	42	50	40	48	40	42
10	38	40	42	48	40	42
11	40	45	38	42	36	40
12	45	50	42	48	40	45
13	40	45	50	55	47	49
14	50	60	50	54	48	50
15	42	48	40	46	40	42

SIGNATURE

Mara Kildow
for JIM EARLEY, QUALITY ASSURANCE MANAGER

Alcoa Fastening Systems



Packing Slip

Packing Slip: 9947987921

Page: 1

Bill To: 5574
B/E AEROSPACE, INC.
P.O. BOX 025263
MIAMI FL 33102-5263
USA

Ship To: (14)
B/E AEROSPACE CONSUM MGMT
9835 NW 14TH ST
MIAMI FL 33172
USA

From:
ALCOA FASTENING SYSTEMS
AEROSPACE PRODUCTS
FULLERTON OPERATIONS
800 SOUTH STATE COLLEGE
FULLERTON CA 92831
USA

Order Contact:

Pack	Date	Order #	Cust PO	Ship Via	Weight	Pkgs #
09/29/10	F320666	OFZ642				

Line/Rel	Item	Qty	Ordered	Qty To Pack
4-1	BG4837 MF5000-5	50	000	6725

C/I: MS21075L5N *Ren. 1*

PO Item #:

*** TSO C-148 APPVD PART. TSO LABEL REQ'D ***

Cust Date: 10/01/10

Kay Date: 08/31/10

Lot: 5346033-000

COO: UNITED STATES

Waybill:

ECCN: 9A991 Schedule-B Number: 7318.16.0000

The export classification appears above. You are responsible for all related export license requirements.

CHEM & PHYS & MFG C OF C REQ
DUAL CERT TO MF5000-5 AND NAS1068A5 *Ren. 13*
BILL LINE 4,5 & 6 TOGETHER

BUYER: YOLANDA
5-592-5155

PHONE: 30

Honeywell Source Accepted:

K352

Christy Wiltjer
Christy Wiltjer

9/29/10
Date

RMRA # (if appl) *DA*

CERTIFICATE OF CONFORMANCE

This is to certify that all items noted above were produced in conformance with the contract, drawing specifications, and other applicable documents. All required process certifications, chemicals and physical test reports are on file subject to examination. This document must not be reproduced except in full and relates only to the items tested.

Christy Wiltjer
CHRISTOPHER FREDRICKSON
Quality Manager
Fullerton Operations

ALCOA GLOBAL FASTENERS, INC.

Kaynar Products: Cage Code 15653 • Eagle Products: Cage Code 66776 • Rosan Products: Cage code 66776

ALL CLAIMS REGARDING THIS ORDER MUST BE REPORTED TO SELLER PROMPTLY. CLAIMS FOR CREDIT OR REPLACEMENT OF PARTS MAY BE LIMITED TO THOSE PARTS FOR WHICH TRACEABILITY HAS BEEN MAINTAINED BY THE BUYER. THE SELLER'S MANUFACTURING LOT IDENTIFICATION NUMBER AND RETURN MERCHANDISE AUTHORIZATION (RMA) NUMBER MUST ACCOMPANY ALL RETURNS. ANY CLAIM BASED ON AN ALLEGED DISCREPANCY IN QUANTITY, QUALITY, ETC. BETWEEN THE GOODS ACTUALLY SHIPPED AND/OR DELIVERED UNDER THESE DOCUMENTS AND THE DESCRIPTION THEREOF IN THESE DOCUMENTS, MUST BE MADE IN WRITING TO SELLER NOT LATER THAN NINETY (90) DAYS AFTER THE SHIPPING DATE APPEARING HEREON. FOR ITEMS CERTIFIED TO BPS-N-70, ALLOY VERIFICATION HAS BEEN PERFORMED ON PARTS WITH A DATE OF MANUFACTURE ON OR AFTER JANUARY 1, 2001. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.

CUSTOMER'S COPY

Alcoa Fastening Systems



Packing Slip



Packing Slip: 9947987921

Page: 2

Bill To: 5574
B/E AEROSPACE, INC.
P.O.BOX 025263
MIAMI FL 33102-5263
USA

Ship To: (14)
B/E AEROSPACE CONSUM MGMT
9835 NW 14TH ST
MIAMI FL 33172
USA

From:
ALCOA FASTENING SYSTEMS
AEROSPACE PRODUCTS
FULLERTON OPERATIONS
800 SOUTH STATE COLLEGE
FULLERTON CA 92831
USA

Order Contact:

Pack Date	Order #	Cust PO	Ship Via	Weight Pkgs #
09/29/10	F320666	OFZ642		

Line/Rel	Item	U/M	Qty Ordered	Qty To Pack
----------	------	-----	-------------	-------------

****ALLOWABLE SHIPPING TOLERANCE - +5%
0% ***** CHEM & PHYS & MFG C-OF-C
REQ "MUST STATE COUNTRY OF ORIGIN WHERE
PARTS WERE MANUFACTURED
ON CERTIFICATION FOR EACH LOT NUMBER" AL
L ITEMS ON THIS PO MUST
BE NEW AND TO THE LATEST REV MFGS NAME &
LOT# MUST APPEAR ON PACKING SLIP ON
ALL PAPER WORK FOR ALL ITEMS.

IF UNDER 150 # SHIP VIA FED EX GROUND SE
RVICE: BILL RECIPIENT ACCT:
0331-0149-0. IF OVER 150 # USE FED X N
AT'L(WATKINS) ACCT. # 018757.
CUST REF: MUST BE THEIR PO # "DO NOT PRE
PAY & ADD TO ANY OF THE ABOVE
METHODS" & "CONSOLIDATE SHIPMENTS WHERE
EVER APPROPRIATE" DO NOT SHIP PARTS
BY ANY OTHER CARRIER THAN THOSE LISTED A

CERTIFICATE OF CONFORMANCE

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Christopher Fredrickson
CHRISTOPHER FREDRICKSON
Quality Manager
Fullerton Operations

ALCOA GLOBAL FASTENERS, INC.

Kaynar Products: Cage Code 15653 • Eagle Products: Cage Code 66776 • Rosan Products: Cage code 66776

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CUSTOMER'S COPY

Alcoa Fastening Systems



Packing Slip



Packing Slip: 9947987921

Page: 3

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B/E AEROSPACE, INC.
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MIAMI FL 33172
USA

From:
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AEROSPACE PRODUCTS
FULLERTON OPERATIONS
800 SOUTH STATE COLLEGE
FULLERTON CA 92831
USA

Order Contact:

Pack Date	Order #	Cust PO	Ship Via	Weight	Pkgs #
09/29/10	F320666	OFZ642			

Line/Rel	Item	U M	Qty Ordered	Qty To Pack
----------	------	-----	-------------	-------------

BOVE, WITHOUT PROPER
WRITTEN AUTHORIZATION FROM M&M
chem & phys certs

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CUSTOMER'S COPY

**Alcoa
Fastening
Systems**

 Aerospace Products
Fullerton Operations
800 S.STATE COLLEGE BLVD
FULLERTON, CA 92831

TEST REPORT

8151105

Lot No.

5346033-000

Supplier Item No.

BG4837

Supplier Part No.

MF5000-5

Interchange Part No.

MF5000-5

Interchange Part No.

MS21075L5 Rev. 1

Interchange Part No.

MS21075L5N Rev. 1

Interchange Part No.

NAS1068A5 Rev. 13

Interchange Part No.

NAS1068RA5 Rev. 13

Interchange Part No.

Manufactured Quantity

6725

Mfg. Date

Generic Description

NUT ANCHOR 2 LUG

Thread Size

.3125-24

HEAT TREAT

AMS-H-6875

LUBRICATION

AS5272 TY I

NON-DESTRUCT

ASTM E1444 SAMPLE

PERFORMANCE

NASM25027

PLATE/COAT

QQ-P-416F CL 2 & CL 3 TY II

Material Spec. #

AMS 5085-G

Mill Heat No.

BTAN1622

Control Heat No.

CC16493

Material Supplier

CALSTRIP INDUSTRIES INC

Material Spec. #

AMS 5085-G

Mill Heat No.

B22644

Control Heat No.

CC14992C

Material Supplier

CALSTRIP INDUSTRIES INC

Special Process Requirements:

THREADS AND GAUGING PER AS8879 AND

ANSI B1.3M SYS. 22

MIN EQUALS BKWY MAX EQUALS INST

TEST RESULTS

TEST ----- No. Description	UOM	SAMPLE Number	RESULT Cycle	MINIMUM Value	MAXIMUM Value	PASS/ Fail	MINIMUM Requirement	MAXIMUM Requirement
1 - 010 TORQUE TEST	IN#	1	1	24.65	28.30		6.50	60.00
			7	26.35	27.80			
			15	27.60	29.75			
		2	1	20.35	23.75			
			7	24.75	28.15			
			15	27.70	26.55			
		3	1	21.10	24.50			
			7	25.90	28.30			
			15	28.70	30.10			
		4	1	27.00	27.30			
			7	25.35	26.50			
			15	28.55	32.95			
		5	1	17.55	24.65			
			7	22.20	29.65			
			15	24.40	33.60			
2 - 020 TENSILE TEST	LBS	1	1	7920.00		Pass	7390.00	
		2	1	7888.00				
		3	1	7910.00				
		4	1	7867.00				
		5	1	10676.00				
3 - 050 EMBRITTLEMENT	HRS	1	1					

TEST RESULTS - Continued on next page.

THIS REPORT MUST NOT BE REPRODUCED EXCEPT IN FULL AND RELATES ONLY TO THE ITEMS TESTED

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Christopher J. Fredrickson
CHRISTOPHER J. FREDRICKSON QA MGR.

**Alcoa
Fastening
Systems**

 Aerospace Products
Fullerton Operations
800 S. STATE COLLEGE BLVD
FULLERTON, CA 92831

TEST REPORT

8151105

Lot No.

5346033-000

 Supplier Item No.
BG4837

 Supplier Part No.
MF5000-5

TEST RESULTS - Continued from previous page.

TEST No. Description	JOM	SAMPLE Number	RESULT Cycle	MINIMUM Value	MAXIMUM Value	PASS/ Fail	MINIMUM Requirement	MAXIMUM Requirement
23 HOURS		2	1			Pass		
		3	1			Pass		
		4	1			Pass		
		5	1			Pass		
		6	1			Pass		
		7	1			Pass		
		8	1			Pass		
		9	1			Pass		
		10	1			Pass		
4 - 070 TORQUE-OUT	LBS	1	1	160.00			160.00	
		2	1	160.00				
		3	1	160.00				
		4	1	160.00				
		5	1	160.00				
5 - 080 PUSH-OUT	LBS	1	1	125.00			125.00	
		2	1	125.00				
		3	1	125.00				
		4	1	125.00				
		5	1	125.00				
6 - 110 HARDNESS HRC 42-46 (per drawing)	RC	1	1	42.00	43.00			

Component # 1	Lot Number 5340653-000	Supplier Part No. MF5000-5FB	Supplier Item No. BG4842
Manufactured Quantity	Mfg. Date	Generic Description BASKET	Thread Size
Material Spec. # AMS 5085-G	Mill Heat No. BTAN1622	Control Heat No. CC16493	Material Supplier CALSTRIP INDUSTRIES INC
Component # 2	Lot Number 5340654-000	Supplier Part No. MS100 .032 X 1.062 STRIP	Supplier Item No. 082633
Manufactured Quantity	Mfg. Date 07/24/10	Generic Description	Thread Size
Material Spec. # AMS 5085-G	Mill Heat No. BTAN1622	Control Heat No. CC16493	Material Supplier CALSTRIP INDUSTRIES INC
Component # 3	Lot Number 5340665-000	Supplier Part No. MF5000-5XN	Supplier Item No. BG4845
Manufactured Quantity	Mfg. Date	Generic Description NUT ELEMENT	Thread Size
Material Spec. # AMS 5085-G	Mill Heat No. B22644	Control Heat No. CC14992C	Material Supplier CALSTRIP INDUSTRIES INC

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Christopher J. Fredrickson
CHRISTOPHER J. FREDRICKSON QA MGR.

**Alcoa
Fastening
Systems**Aerospace Products
Fullerton Operations
800 S.STATE COLLEGE BLVD
FULLERTON, CA 92831**TEST REPORT**

8151105

Lot No.

5346033-000

Supplier Item No.
BG4837Supplier Part No.
MF5000-5

Component #

4 **5340662-000**

Supplier Part No.

F0412A5000B1K006500

Supplier Item No.

HAL749

Manufactured Quantity

Mfg. Date

Generic Description

Thread Size

Material Spec. #
AMS 5085-G

1

Mill Heat No.
B22644Control Heat No.
CC14992CMaterial Supplier
CALSTRIP INDUSTRIES INC

Component #

5 **5303067-000**

Supplier Part No.

MS100 .055 X 1.125 STRIP

Supplier Item No.

084922

Manufactured Quantity

Mfg. Date
02/03/09

Generic Description

Thread Size

Material Spec. #
AMS 5085-G

1

Mill Heat No.
B22644Control Heat No.
CC14992CMaterial Supplier
CALSTRIP INDUSTRIES INC**THIS REPORT MUST NOT BE REPRODUCED EXCEPT IN FULL AND RELATES ONLY TO THE ITEMS TESTED**

The product identified on this Certificate has been manufactured, tested and unless otherwise noted, conforms in all respects to the applicable drawings, specifications and standards. Complete reports of physical and chemical tests are on file for examination. If no specified customer quality level is required, goods conform to sellers quality level. All Damages Exceeding Price are Excluded. For items certified to BPS-N-70 alloy verification has been performed on parts with a date of manufacturing on or after January 1, 2001. Quality system sampling plan conforms to the requirement of QAP EQ001, QAP EQ002, QAP EQ003. The recording of false, fictitious, or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

CHRISTOPHER J. FREDRICKSON QA MGR.

Rev. 12/02 Form 11199

CERTIFIED TEST REPORT**Calstrip Steel Corporation**

REGISTERED ISO 9001:2000

7140 Bandini Blvd • Los Angeles, CA 90040-3388
(323)726-1345 • Fax (323)722-8269

Customer: ALCOA FASTENING SYSTEMS Address: P.O. BOX 1186 PITTSBURGH, PA 15230	Order Number: S60503 / W72920 Customer PO: 220446308 Shipped Date: 07/12/2010 Packlist ID: 98746
Part ID: 082695-CS Description: CR1050 .032 X 8.500 X COIL Drawing #: 082695 Rev #:	Material Spec: AMS 5085G, ASTM A827-02, MS 100 REV.7

HeatID: BTAN1622

CHEMICAL ANALYSIS

CC16493

C	Mn	P	S	Si	Ni	Cr	Cu	Mo	Resl
0.5090	0.6194	0.0088	0.0064	0.1772	0.0751	0.1082	0.1396	0.0184	
W	V	Sn	Ti	Al	Ca	Zr	Co	N	B
	0.0010	0.0206	0.0016	0.0280	0.0021			0.0086	

MECHANICAL AND PHYSICAL PROPERTIES

Yield	Tensile	Elong %	Hardness	Bend Test
			HRB 80	OK
Grain Size	Olsen Test	Spher%	Decarb	Reduct %
8		100	0	

Skid Numbers	# of Coils	Weight
W72920-1	1	2,616
W72920-2	1	2,702
	2	5,318

Comment: SOURCE- DUFERCO (USA)

All work on this order has been performed in accordance with the Company's Quality Assurance Manual.

MARIO VARGAS

Technical Services

Form #:

Print Date: 7/12/2010

Page: 1

Date Created: Wed Sep 29 21:39:34 2010

SHIPPER#: 9947987921

Sold To:

Vendor:

CALSTRIP STEEL CORPORATION
7140 BANDINI BLVD.
LOS ANGELES, CA

DUFERCO FARRELL CORP
15 ROEMER BOULEVARD
FARRELL, PA 16121
Phone:
Fax:

Ship To:

CALSTRIP STEEL CORPORATION
C/O OMEGA STEEL INC.
7140 BANDINI BLVD.
LOS ANGELES, CA 90040

Coil ID	Sales #	Cust PO#	Part#	Heat #	Weight	Gauge	Width
7519749A	251209	4779CS-4	NOTDEFINED	BTAN1004	18,380	.0321	42.13

Chemistry Information:

AL .03	C .5153	CA .0017	CB .0029	CR .1089	CU .1404	MN .7289
MO .0188	N .0074	NI .0757	P .009	S .0017	SI .1749	SN .0178
TI .0019	V .0009					

Coil ID	Sales #	Cust PO#	Part#	Heat #	Weight	Gauge	Width
7519749B	251209	4779CS-4	NOTDEFINED	BTAN1004	18,700	.0321	42.13

Chemistry Information:

AL .03	C .5153	CA .0017	CB .0029	CR .1089	CU .1404	MN .7289
MO .0188	N .0074	NI .0757	P .009	S .0017	SI .1749	SN .0178
TI .0019	V .0009					

BOL	# Coils	Date	Type	Carrier	Vehicle #
618322	2	2010-06-09	Rail	NORFOLK AND SOUTHERN RAIL	N9165691

Coil ID	Sales #	Cust PO#	Part#	Heat #	Weight	Gauge	Width
7519800A	251207	4779CS-3	NOTDEFINED	BTAN1622	17,890	.0311	42.13

Chemistry Information:

AL .028	C .509	CA .0021	CB .0033	CR .1082	CU .1396	MN .6194
MO .0184	N .0086	NI .0751	P .0088	S .0064	SI .1772	SN .0206
TI .0016	V .001					

Coil ID	Sales #	Cust PO#	Part#	Heat #	Weight	Gauge	Width
7519800B	251207	4779CS-3	NOTDEFINED	BTAN1622	18,390	.0311	42.13

Chemistry Information:

AL .028	C .509	CA .0021	CB .0033	CR .1082	CU .1396	MN .6194
MO .0184	N .0086	NI .0751	P .0088	S .0064	SI .1772	SN .0206
TI .0016	V .001					

SHIPPER#: 9947987921

Duferco

Farrell Corporation

DUFERCO FARRELL CORP.
16 ROEMER BOULEVARD
FARRELL, PA 15121
PHONE: 724-823-5454

09/09/2010 15:09
CST4M6105
Page 3 of 3

CERTIFICATE OF TEST FOR COIL 7519800B HEAT# BTAN1622

SOLD TO: CALSTRIP STEEL CORPORATION 7140 SANDERS BLVD. LOS ANGELES, CA 90048 SHIP TO: CALSTRIP STEEL CORPORATION C/O OMEGA STEEL, INC. 7140 SANDERS BLVD. LOS ANGELES, CA 90048	ORDER SPECIFICATIONS		
	CUSTOMER PO: 4778CS-3 RESULTS FOR COIL: 7519800B PRODUCT TYPE: CR PRODUCT CATEGORY: HA ORDERED QUANTITY: 120 ORDERED QUANTITY: 3311 NOM QUANTITY TOL: +2000/L-1000 ORDERED WEIGHT: 18390 LBS WEIGHT TOL: +1875/-625	ORDER: 251207 SHIP TO: CUY FROM: 2000 AA MANUFACTURE: 82 RB MAX HARDNESS RANGE: 100 TO 150 MPa WELD: TENSILE: ELONGATION: REMARKS:	ITEM: 50232930 REMARKS: 100% MAX CUSTOMER SPEC: CUSTOMER PART #: CERT #: 2 CUSTOMER NOTE:

JOB #	COIL #	SIZE	WGT	HARDNESS
251207-01	7519800			65-30T
	7519800A	.0311 x 42.0000	17890	
	7519800B	.0311 x 42.0000	18390	

HEAT# BTAN1622

C: .51-MN: .52-P: .008-S: .006-SI: .177-AL: .028-CL: .140-NI: .075-CR: .108-MO: .018-SN: .021-TI: .002-V: .001-NB:
.003-N: .0008-B: *-CA: .0021-CE: *-ZR: *-AS: *-SE: *

JOB #	COIL #	SIZE	WGT
251207-01	7519800A	.0311 x 42.0000	17890

HEAT# BTAN1622

C: .51-MN: .52-P: .008-S: .006-SI: .177-AL: .028-CL: .140-NI: .075-CR: .108-MO: .018-SN: .021-TI: .002-V: .001-NB:
.003-N: .0008-B: *-CA: .0021-CE: *-ZR: *-AS: *-SE: *

Elements with a reported value of "*" were undetected, and thus are less than .001%.

Manufactured in the United States of America

DUFERCO FARRELL CORPORATION certifies that the material listed herein has been tested in accordance with the methods prescribed in the governing specifications. Based upon the results of such testing, the material conforms to the specifications. All testing has been performed using the current revision of the testing specifications.

[Signature]

Date F Siddons
Supervisor - Metallurgical Lab

SHIPPER#: 9947987921

Date Created: Wed Sep 29 21:39:34 2010

SHIPPER#: 9947987921

CERTIFIED TEST REPORT



Calstrip Steel Corporation

7140 Bandini Blvd. * Los Angeles, CA 90040-3388
(323)726-1345 * Fax (323)722-8269

Customer: ALCOA FASTENING SYSTEMS Address: P.O. BOX 1186 PITTSBURGH, PA 15230	Order Number: S46436 / W57773 Customer PO: 220351001 Shipped Date: 10/31/2008 Packlist ID: 78584
Part ID: 084995-CS Description: 1050 ANN .055 X 8.250 X COIL Drawing #: 084995 Rev #:	Material Spec: 1050 AMS 5085G & MS100 REV. 7, ASTM A827-02

HeatID: B22644

CHEMICAL ANALYSIS

CC14992C

C	Mn	P	S	Si	Ni	Cr	Cu	Mo	Resi
0.5000	0.7800	0.0120	0.0020	0.2100		0.0400	0.0100		
W	V	Sn	Ti	Al	Ca	Zr	Co	N	B
	0.0020	0.0040	0.0030	0.0250	0.0020			0.0052	0.0003

MECHANICAL AND PHYSICAL PROPERTIES

Yield	Tensile	Elong %	Hardness	Bend Test	Skid Numbers	# of Coils	Weight
			HRB 79	OK	W57773-1	1	1,732
					W57773-2	1	2,082
						2	3,814
Grain Size	Olsen Test	Spher%	Decarb	Reduct %			
8		100	0				

Comment: SOURCE- ARCELOR MITTAL (USA)

11-03-08 K222

All work on this order has been performed in accordance with the Company's Quality Assurance Manual.

MARIO VARGAS Technical Services

Form #:

Print Date: 10/31/2008

Page: 3

ADVANCE SHIP NOTICE

1181306

ArcelorMittal Riverdale Inc.

ArcelorMittal

REV. DATE SHIPPED
B 05/16/2006

BILL OF LADING 01181306	CARRIER MITTAL RIVERDALE	CARTRAILER NO. CSP16	ARRIVAL DATE																																										
FREIGHT PAYMENT Collected	NET WEIGHT 183200 LBS	TARE WEIGHT																																											
SHIP TO (001026-001) NADACO STEEL INC. C/O NACME STEEL PROCESSING 429 WEST 127TH STREET CHICAGO, IL 60628 ATTENTION: NANCY DOLKOWSKI																																													
OUR ORDER: 387437 YOUR P.O.: 09344 FOB: FOB MILL 48560 LBS / 1 Coil DC3 EX0906850-01 0.0300 Nom -0.0080/+0.0080 X 48.5000 + 1.1250 ME(IN) ID 0.0/0.0 CD 0.0/0.0 (IN) Hot Band Excess Prime Carbon 1050 C R/A END USE: EXCESS DIRT COIL 769426 LOT NBR W.O. # QUANTITY UM B22644 ✓ 46560 LBS / 1 Coil																																													
----- CERTIFICATION ----- TEST CLASS LOT NBR ----- PROPERTIES ----- Chemical: B22644 <table border="0"> <tr> <td>C</td><td>Mn</td><td>P</td><td>S</td><td>Si</td><td>Ca</td><td>Ni</td> </tr> <tr> <td>0.50000</td><td>0.78000</td><td>0.01200</td><td>0.00200</td><td>0.21000</td><td>0.01000</td><td>0.0000</td> </tr> <tr> <td>Cr</td><td>Mo</td><td>Sb</td><td>Al</td><td>V</td><td>Cb</td><td>N</td> </tr> <tr> <td>0.04000</td><td>0.00000</td><td>0.00400</td><td>0.01500</td><td>0.00200</td><td>0.00000</td><td>0.0052</td> </tr> <tr> <td>B</td><td>Fe</td><td>Ti</td><td>Sb</td><td>Ca</td><td>O</td><td></td> </tr> <tr> <td>0.00030</td><td>0.00000</td><td>0.00300</td><td>0.00000</td><td>0.0020</td><td></td><td></td> </tr> </table>				C	Mn	P	S	Si	Ca	Ni	0.50000	0.78000	0.01200	0.00200	0.21000	0.01000	0.0000	Cr	Mo	Sb	Al	V	Cb	N	0.04000	0.00000	0.00400	0.01500	0.00200	0.00000	0.0052	B	Fe	Ti	Sb	Ca	O		0.00030	0.00000	0.00300	0.00000	0.0020		
C	Mn	P	S	Si	Ca	Ni																																							
0.50000	0.78000	0.01200	0.00200	0.21000	0.01000	0.0000																																							
Cr	Mo	Sb	Al	V	Cb	N																																							
0.04000	0.00000	0.00400	0.01500	0.00200	0.00000	0.0052																																							
B	Fe	Ti	Sb	Ca	O																																								
0.00030	0.00000	0.00300	0.00000	0.0020																																									
----- D E T A I L ----- TAG NBR W.O. # LOT NBR GAUGE(IN) WIDTH(IN) QUANTITY UM WEIGHT UM 769426 B22644 0.0910 48.1584 46560 LBS 46560 LBS																																													